

Appln. No. 09/736,069
Amdt. dated November 2, 2005
Reply to Office Action dated September 20, 2005

IN THE CLAIMS:

Please amend claim 1 under the provisions of 37 CFR 1.116 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended). A bridge that is configured to facilitate communications between a first network of Non-IP-compatible entities and a second network of IP-compatible entities, comprising:

5 a Non-IP to IP interface to facilitate communications between an application entity on the first network and a Web server on the second network comprising:

an IP Web client that is operably coupled to the second network to selectively translate a first set of communications
10 between the Web server and the first network, and to pass a second set of communications between the Web server and the first network without translation;

a Non-IP Web proxy that is operably coupled to the IP Web client and the first network, and is configured to make the IP
15 Web client compliant with middleware that is associated with the Non-IP network;

a Non-IP Web proxy client that is operably coupled to the

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Non-IP Web proxy and the first network, and is configured to allow the application entity to access the Web server; and

20 an IP to Non-IP interface to facilitate communications between a Web browser on the second network and a Non-IP device entity on the first network, comprising:

a Non-IP Web server that is operably coupled to the second network, to selectively translate a first set of communications
25 between the Web browser and the first network, and to pass a second set of communications between the Web browser and the first network without translation;

a Web service executor that is operably coupled to the Non-IP web server and to the first network, and is configured to
30 [[proved]] provide access to the Non-IP device entity;

a Web page generator that is operably coupled to the Non-IP Web Server and to the first network, and is configured to generate web pages for presentation to the Web browser; and

a translation manager that is operably coupled to the Non-IP
35 Web server, the Web service executor, and the Web page generator, and is configured to provided service-to-user-interface and message-to-methods translation services.

Claims 2-3 (Cancelled).

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Claim 4 (Previously Presented). The bridge as claimed in claim 1, wherein

the Non-IP Web proxy is configured to facilitate communications between the Web server and a Non-IP service.

Claims 5-7 (Cancelled).

Claim 8 (Previously Presented). A Non-IP network comprising at least one Non-IP-compatible device; and a bridge that includes:

a Non-IP to IP interface to facilitate communications
5 between an application entity on the Non-IP network and a Web server on an IP network comprising:

an IP Web client that is operably coupled to the IP network, to selectively translate a first set of communications between the Web server and the Non-IP network, and to pass a second set
10 of communications between the Web server and the non-IP network without translation;

a Non-IP Web proxy that is operably coupled to the IP Web client and the Non-IP network, and is configured to make the IP Web client compliant with middleware that is associated with the
15 Non-IP network;

a Non-IP Web proxy client that is operably coupled to the Non-IP Web proxy and the Non-IP network, and is configured to

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allow the application entity to access the Web server; and

an IP to Non-IP interface to facilitate communications

20 between a Web browser on the IP network and the at least one Non-
IP-compatible device on the Non-IP network comprising:

a translation manager suitable to provide service-to-user
interface and message-to-methods translation services.

Claims 9-10 (Cancelled).

Claim 11 (Previously Presented). The Non-IP network as
claimed in claim 8, wherein the IP to Non-IP interface further
includes:

a Non-IP Web server that is operably coupled to the IP
5 network, and is configured to appear as an Internet server to the
Web browser;

a Web service executor that is operably coupled to the Non-
IP Web server and to the Non-IP network, and is configured to
provide access to the at least one Non-IP-compatible device; and

10 a Web page generator that is operably coupled to the Non-IP
Web server and to the Non-IP network, and is configured to
generate web pages for presentation to the Web browser;

wherein the translation manager is operably coupled to the
Non-IP Web server, to the Web service executor, and to the Web
15 page generator.

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Claim 12 (Original). The Non-IP network as claimed in claim
11, wherein

the Non-IP Web server is configured to selectively translate
a first set of communications between the Web browser and the
5 Non-IP network, and to pass a second set of communications
between the Web browser and the Non-IP network without
translation.

Claim 13 (Previously Presented). A method of enabling
interactions between a Non-IP network and an IP network,
comprising:

establishing an IP connection between a browser on the IP
5 network and a server at a bridge element,
communicating a web page corresponding to the server to the
browser,
receiving a user input from the browser to the server, based
on the web page,
10 processing the user input to produce one or more commands
related to an object on the Non-IP network, and
communicating the one or more commands to the object,
wherein a first set of communications are selectively translated
via a translation manager operatively connected to the Non-IP Web
15 network and suitable to provide service-to-user-interface and

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message-to-methods translation services, and passed between the browser and the Non-IP network, and a second set of communications are passed between the browser and the Non-IP network without translation.

Claim 14 (Original). The method of claim 13, further including:

determining a status corresponding to the object on the Non-IP network,
5 creating a web page corresponding to a status of the object, and
communicating the web page from the server to the browser.

Claim 15 (Original). The method of claim 13, further including:

receiving an access request from a Non-IP-compatible application,
5 communicating the access request to a Web server on the IP network,
receiving a web page corresponding to the Web server, and
communicating messages corresponding to the web page to the Non-IP-compatible application.